

Title: LIST OF S. N. BERNSHTEYN'S WORKS, 1903 to 1949 (USSR)

Source: Izv Acad Nauk, SSSR, Ser Mat Ibid, No 3, 1940-1950, pp 193-98,
Russian bimonthly periodical

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List of S.N. Bernshteyn's works ~~from 1903 to 1949~~ 1903 to 1949.

1903

1. "Analytic Nature of Solutions of Certain Equations with Second-Order Partial Derivatives", (in French) Comptes Rendus, pp 778-781, Paris.

1904

2. "Certain Ordinary Second-Order Differential Equations", (in French) Comptes Rendus, pp 950-951, Paris.
3. "Certain Equations with Second-Order Partial Derivatives", (in French) Comptes Rendus, pp 627-628, Paris.
4. "Analytic Nature of Solutions of Equations with Partial Derivatives of the Second Order", Teubner Leipzig, 61 pp, and These Fac. Sci., Paris.
5. "Analytic Nature of Solutions of Equations with Partial Derivatives of the Second Order", (in French) Math Annalen, Vol XLIX pp 20-76.

1905

6. "Equations of the Parabolic Type", (in French) Comptes Rendus, Vol CXL, pp 137-139, Paris.
7. "Equations with Partial Derivatives of the Elliptic Type", (in French) Comptes Rendus, Vol CXL, pp 1140-1142, Paris.
8. "Minimum Surfaces", (in French) Comptes Rendus, Vol CXLI, pp 558-559, Paris.
9. "Interpolation", (in French) Bull. Soc. Math. de France Vol XXXIII, pp 33-36.

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10. "Deformation of Surfaces", Math. Annalen, Vol LX, pp 434-436.

1906

11. "Singularities of Solutions of Elliptic-Type Equations with Partial Derivatives", (in French) Comptes Rendus, Vol CLXI, pp 564-565, Paris.
12. "Generalisation of Dirichlet's Problem. Part One", (in French) Math Annalen, Vol LXII, pp 253-271.

1907

13. "General Method for Solving Dirichlet's Problem", (in French) Comptes Rendus, Vol CXLIV, pp 1025-1027, Paris.

1908

14. "Study and Integration of Second-Order Partial Differential Equations of the Elliptic Type", Soobshcheniya Khar'kov Matem Obsch, Series 2, Vol XI, pp 1-96.
15. "Draft^{of} Educational Plan for Mathematics Courses in Men's Public Schools, Drawn up by the Kiev Physico-Mathematical Society", Pedagog Sbornik, Sept, pp 241-248.

1909

16. "Study and Integration of Second-Order Partial Differential Equations of the Elliptic Type", Soobshcheniys Khar'kov Matem Obsch, Series 2, Vol XI, pp 97-164; Book of same title, pp 164, 1908, Khar'kov.
17. "Dirichlet's Principle and Expansion of Harmonic Functions into a Series of Polynomials", (in French) Comptes Rendus, Vol CXLVIII, pp 1306-1908, Paris.
18. "Fundamentals of Mathematics. Collection of Lezan's Works" (Translated from French), Pedagog Sbornik, October, pp 323-325.
19. "Problem of Revising Mathematics Courses in Secondary Schools", Pedagog Sbornik, November, pp 371-388.

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1910

20. "Conditions Necessary and Sufficient for the Possibility of Dirichlet's Problem", (in French) Comptes Rendus, Vol CL, pp 514-515, Paris.
21. "Equations of Mechanics and the Calculus of Variation", (in French) Comptes Rendus, Vol CLI, pp 48-50, Paris.
22. "Equations of the Calculus of Variation", (in French) Comptes Rendus, Vol CLI, pp 195-198, Paris.
23. "Generalization of the Theorems of Liouville and M. Picard", (in French) Comptes Rendus, Vol CLI, pp 636-639, Paris.
24. "Surfaces Defined by their Mean or Total Curvature", (in French) Annales Scient Ecole Normale, Vol XXVII, pp 233-256.
26. "Trigonometry. Emile Borel" (Translation under the Editorship of N. Saltykov), Published by Sytin, Pedagog Sbornik, October, pp 355-357.
25. "Generalization of Dirichlet's Problem. Part Two", (in French) Math Annalen, Vol LXIX, pp 82-136.
27. "Rectilinear Trigonometry. Vera Schiff", Second Edition, M. Vol'f, Pedagog Sbornik, October, pp 357.
28. "Course of Rectilinear Trigonometry. V. Shidlovskiy", SPb, Pedagog Sbornik, October pp 358.
29. "K.B. Penionzhkevich. Fundamentals of Analysis of the Infinitely Small Course 7 for Real Schools (secondary schools without classics) at Belaya Tserkov'", Pedagog Sbornik, December, p 622.
30. "I. Heiberg. Newly Discovered Works of Archimedes. Letters sent by Archimedes to Eratosthenes on Certain Theorems of Mechanics". Translation, Matezis. Pedagog Sbornik, December, pp 619-620.
31. "Physico-Mathematical Supplement to the Circular on Administration of the Caucasian Educational Okrug", 1909, No 1, Pedagog Sbornik, December, p 622.

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1911

32. "Approximate Calculation of Probabilities by Laplace's Formula", (in French), Soobshcheniya Khar'khov Matem Obshch, Series 2, Vol 12, pp 106-110
33. "Approximation of Continuous Functions by Polynomials" (in French), Comptes Rendus, Vol 152, pp 502-504, Paris.
34. "Theory of Probabilities (Teoriya Veroyatnostey), Lithograph, 254 pp, Khar'kov.
35. "Weber and Wellstein. Encyclopedia of Elementary Geometry, Book I", Translation, edited by V. Kagana, Matezis. Pedagog Sbornik, February, pp 378-380, A review.
36. "F. Cajori. History of Elementary Mathematics", translation, edited by I. Timchenko, Matezis. Pedagog Sbornik, March, pp 393-394. A review.
37. "August Adler. Theory of Geometric Constructions", translation, edited by S. Shatunovskiy, Matezis. Pedagog Sbornik, August, pp 174-176. A review.
38. "A. Markov. Calculation of Finite Differences", Second Edition, Matezis. Pedagog Sbornik, October, p 388. A review.
39. "Emile Borel. Arithmetic", translation, edited by D. Volkovskiy, published by Sytin. Pedagog Sbornik, October, pp 388-389. A review.

1912

40. "Asymptotic Value of the Best Approximation of $/x/$ " (in French), Comptes Rendus, Vol 154, pp 184-186, Paris.
41. "Asymptotic Value of the Best Approximation of Analytic Functions" (in French), Comptes Rendus, Vol 155, pp 1062-1065, Paris.
42. "Demonstration of Weierstrass' Theorem Based on the Calculus of Probabilities", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 13, pp 1-2.

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43. "Best Approximation of Continuous Functions by Means of Polynomials of a Given Degree", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 13, pp 49-194.
44. "Summation of Taylor's Everywhere-Divergent Lines", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 13, pp 195-199.
45. "Historical Survey of the Development of the Concept of Functions", Vest Op Fiz i Elem Mat, No 559, ser 47, pp 177-184.
46. "Order of Better Approximation of Continuous Functions by Polynomials of a Given Degree" (in French), Memoires Publie par la Classe des Sc Acad de Belgique, Series 2, Vol 4, pp 1-103.
47. "On the Equations of the Calculus of Variations" (in French), Annales Scient Ecole Normale, Vol 29, pp 431-485.
48. "Russian Mathematical Bibliography", edited by Prof. D.M. Sintsov, Issues 1-2 for 1908-1909, Odessa, Mathesis, 1910-1912, Pedagog Sbornik, May.
A review.
49. "Prof. G. Kovalevskiy. Introduction to the Calculus of the Infinitely Small", translation, edited by S. Shatunskiy, Matezis, Pedagog Sbornik, February, pp 301-302. A review.
50. "B. Bolzano. Paradoxes of the Infinite", translation, edited by I. Sleshinskiy, Matezis, Pedagog Sbornik, June, p 705. A review.
51. "K.B. Penionzhkevich. Fundamentals of Analytical Geometry. Course for Supplemented Class in Real Schools" (secondary school without classics), Edition of Dumnov, Pedagog Sbornik, July, pp 69-70.
A review.
52. "Borel-Steckel. Elementary Mathematics. Part I. Arithmetic and Algebra". Translation, edited by V. Kagan, Matezis. Pedagog Sbornik, September, pp 326-327. A review.

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1913

53. "Recent Research Relative to the Best Approximation of Continuous Functions by Polynomials" (in French), Proc 5 Intern Math Congr, Vol 1, pp 256-266.
54. "Normal Series" (in French), in Hadamard's book, Lecons sur les Principes de l'Analyse, Vol 2, pp 259-283, Paris.
55. "Asymptotic Value of the Best Approximation of Analytic Functions Admitting Given Singularities" (in French), Bull de la Classe des Sc, Acad de Belgique, No 2, pp 76-90.
56. "Certain Asymptotic Properties of Polynomials" (in French), Comptes Rendus, Vol 157, pp 1055-1057, Paris.
57. "Asymptotic Value of the Best Approximation of Analytic Functions". Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 13, pp 263-273.
58. "A Property of Polynomials" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 1-6.
59. "Remarks on Vladimir Markov's Inequality" (in French). Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 81-87.
60. "On the Best Approximation of $/x/$ by Polynomials of Given Degree" (in French), Acta Math, Vol 37, pp 1-57.
61. "Felix Klein. Questions of Elementary and Higher Mathematics", Pedagog Sbornik, November. A review.
62. "Calculus of Finite Differences". (Ischisleniye Konechnykh Raznostey) Course, read in 1913. Lithograph, 89 pp, Khar'kov.
63. "J.V.A. Young. How to Teach Mathematics" Translated by A. Kulisher, edition "Social Use". Pedagog Sbornik, March, pp 3840387. A review.

1914

64. "Best Approximation of Continuous Functions by Means of Polynomials". Speech delivered in public defense of Doctoral Dissertation, 19 May 1913. Zap Khar'kov Univ, Kn 4 Letopis' Khar'kov Univ, pp 1-8.

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65. "Best Approximation of Analytic Functions Possessing Complex Singularities" (in French), Comptes Rendus, Vol 158, pp 467-469, Paris.
66. "Absolute Convergence of Trigonometric Series" (in French), Comptes Rendus, Vol 158, pp 1661-1663, Paris.
67. "Definition and Properties of Analytic Functions of One Real Variable" (in French), Math Annalen, Vol 75, pp 449-468.
68. "Absolute Convergence of Trigonometric Series", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 139-144.
69. "Certain Periodic Functions which Deviate the Least Possible from Zero" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 145-152.
70. "Conception of Functions in Secondary School", Collection, read at the 2nd meeting of Mathematics Teachers 30 December 1913. Matem Obrazovaniye, Vol 3, pp 169-175.
71. "L. Couturat. Philosophical Principles of Mathematics". Translation, edited by P. Yushkevich, published by Karbasnikov. Pedagog Sbornik, October, pp 306-307. A review.

1915

72. "Supplement to the Article 'Absolute Convergence of Trigonometric Series'", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 200-201.
73. "Representation of Positive Polynomials" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 14, pp 227-228.
74. "A Geometric Theorem and its Application to Elliptic-Type Equations with Partial Derivatives" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 15, pp 38-45.
75. "A Note in Connection with M. Maliyev's Article 'The Problem of Four Colors' Appearing in No 621 of Vestnik". Vestn Op Fiz i Elem Mat, No 625, Series 2, sem 3, p 18.

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76. "The Problem of Four and Five Colors". Vestn Op Fiz i Elem Mat, No 628/629, Series 2, sem 3, pp 107-111.
77. "N. Kamen'shchikov. Tables of Logarithms with Four Decimal Places. (Tablitsy Logarifmov s chetyr'mya desyaticnymi znakami). 'Prosveshcheniya' publishers, Petrograd 1914. Vestn Op Fiz i Elem Mat, No 628/629, Series 2, sem 3, p 115. A review.

1916

78. "Some Remarks on Interpolation" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 15, pp 49-61.
79. "Jules Tannery. Basic Concepts of Mathematics" (Osnovnyye Ponyatiya Matematiki), Petrograd 1914. Pedagog Sbornik, January, pp 110-112. A review.
80. "N.G. Leksin. Laboratory Method of Studying Geometry, Kazan, 1914." Pedagog Sbornik, February, pp 257-258. A review.
81. "A.R. Kulischer. Textbook in Geometry, Part I, St. Petersburg, 1914." Pedagog Sbornik, April, p 656. A review.
82. "D. Sintsov. A Symposium of Programs and Instructions for the Teaching of Mathematics in Western Europe, Issue 1, Moscow 1914." Pedagog Sbornik, May, pp 736-737. A review.

1917

83. "Test of the Axiomatic Basis for the Theory of Probabilities", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 15, pp 209-274.

1918

84. "Law of Large Number", Soobshcheniya Khar'kov Matem Obshch, Series 2, Vol 16, pp 82-87.
85. "Some Remarks on Interpolation" (in French), Math Annalen, Vol 79, pp 1-12.

1921

86. "The Correlation between Estimates and the Actual Weight of Crops in the Khar'kov District for the years 1913-1918", Statist Byull TsSU Ukr, No 4, pp 2-5.

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1922

87. "Application of Mathematics to Biology", Nauka na Ukraine, Vol I, pp 14-19.
88. "Limit Theorem of the Calculus of Probabilities" (in French), Math Annalen, Vol 85, pp 237-241.
89. "Asymptotic Expansion of the Best Approximation of Rational Functions by Polynomials of Degree 'Infinitely Intersecting'" (in French), Comptes Rendus, Vol 175, pp 804-806, Paris.
90. "Journal of Pure and Applied Knowledge", Nauka na Ukraine, No 4, pp 407-408. A review.
91. "David Hilbert: Anniversary of His Birthday" (in German), Berlin, 1922. Nauka na Ukraine, No 4, pp 408-409. A review.

1923

92. "A Property of Integral (Entire) Functions" (in French) Comptes Rendus, Vol 176, pp 1603-1605, Paris.
93. "Extremal Properties of Polynomials and Integral (Entire) Functions on the Real Axis" (in French) Comptes Rendus, Vol 176, pp 1782-1785, Paris.
94. "Best Approximation of Functions Possessing an Essential Singular Point" (in French), Comptes Rendus, Vol 177, pp 99-101, Paris.
95. "Mathematical Demonstration of the Mendelian Law of Heredity" (in French), Comptes Rendus, Vol 177, pp 528-531, Paris.
96. "Principle of Stability and Generalizations on the Mendelian Law" (in French), Comptes Rendus, Vol 177, pp 581-584, Paris.
97. "Quasi-Analytic Functions" (in French), Comptes Rendus, Vol 177, pp 937-939, Paris.

1924

98. "A Variation of Chebyshev's Inequality and an Error in Laplace's Formula", Uchenyye Zap Nauch-Issled Kafedr Ukrainy, Otd Matem, Issue 1, pp 38-49.

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99. "Solution of a Mathematical Problem Connected with the Theory of Heredity",
Uchenyye Zap Nauch-Issled Kafedr Ukrainy, Otd Matem, Issue 1, pp 83-115.
100. "Abstract of the Report on Prof. S.N. Bernshteyn's Foreign Service, Made
to the Scientific Committee", Uchenyye Zap Nauch-Issled Kafedr Ukrainy,
Otd Matem, Issue 1, pp 147-148.
101. "Quasi-Analytic Functions of M. Carleman" (in French), Comptes Rendus,
Vol 179, pp 743-745, Paris.
102. "Problem of the Approximation of Continuous Functions over the Whole Real
Axis and One of Its Application" (in French), Bull Soc Math de France,
Vol 52, pp 399-410.
103. "Introduction to the Book: 'Theoretical Foundations of the Selective
Method'". Extracts from the 4th English Edition of A. Bowley's Elements
of Statistics, edited by S.N. Bernshteyn. TsSU USSR, pp 5-9, Khar'kov.

1925

104. "Distribution Curves of Probabilities" (in French), Math Zeitschrift,
Vol 24, pp 199-211.

1926

105. "Integration of Elliptic-Type Equations with Partial Derivatives, I.
Reply to a Criticism" (in French), Math Annalen, Vol 95, pp 585-594.
106. "Analytic Nature of Solutions of Partial Differential Equations of the
Elliptic Type" (in French), Math Zeitschrift, Vol 25, pp 505-513.
107. "Sums of Dependent Quantities" (in French), Izvestiya Ak Nauk SSSR,
Vol 20, pp 1459-1478.
108. Lessons on Extremal Properties and Best Approximation of Analytic Functions
in One Real Variable (in French), Gauthier-Villars, X, 207 pp. Collection
of monographs on the theory of functions, published by E. Borel. Paris.
109. "Application of a Geometrical Principle to the Theory of Correlations",
Sbornik Pamyati Lobachevskovo, Vol 2, pp 137-150, Kazan'.

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110. "A Property of Integral (Entire) Functions of Zero Order" (in French),
Naukovi Zap N-D Mat Katedr Ukraini, Issue 2, p 9.
111. "Extension of the Limit Theorem of the Calculus of Probabilities to Sums
of Dependent Quantities" (in French), Math Annalen, Vol 97, pp 1-59.

1927

112. "Integration of Elliptic-Type Equations with Partial Derivatives, II"
(in French), Math Annalen, Vol 96, pp 633-647.
113. "Multiply-Monotonic Polynomials which Deviate the Least from Zero"
(in French), Comptes Rendus, Vol 185, pp 247-249, Paris.
114. "A Problem Relative to Absolutely-Monotonic Functions" (in French),
Comptes Rendus, Vol 185, pp 495-496, Paris.
115. "New Demonstration of an Inequality Relative to Trigonometric Polynomials"
(in French), Rendiconti Accad d Lincei Roma, Series 6, Vol 5, pp 558-561.
116. "A Geometric Theorem and its Application to Elliptic-Type Partial Differ-
ential Equations" (in German), Math Zeitschrift, Vol 26, pp 551-558.
117. "A Property of Chebyshev's Polynomials" (in French), Doklady Ak Nauk
SSSR, A, pp 405-407.
118. "Multiply-Monotonic Polynomials" (in French), Soobshcheniya Khar'kov
Matem Obshch, Series 4, Vol I, pp 1-11.
119. "Geometric Fundamentals of the Theory of Correlations" (in French),
Metron, Vol 7, No 2, pp 3-27.
120. Theory of Probabilities. Gos Izd, viii 363 pp, Moscow-Leningrad.

1928

121. "Addition to the Article: Sums of Dependent Quantities" (in French),
Doklady Ak Nauk SSSR, A, pp 55-60.
122. "Present Status of the Theory of Probabilities and its Applications".
Trudy Vseross S'yezda Matem v Moskve, 27 Apr - 4 May 1927, Gos Izd,
pp 50-63, Moscow-Leningrad.

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123. "Certain Properties of Regularly Monotonic Functions", Soobshcheniya Khar'kov Matem Obshch, Series 4, Vol 2, pp 1-11.
124. "Theorem of M. Goncharov" (in French), Soobshcheniya Khar'kov Matem Obshch, Series 4, Vol 2, pp 73-74.
125. "A Property of the Exponential Function" (in French), Naukovi Zap N-D Mat Katedr Ukraini, Vol 3, pp 65-71.
126. "Multiply Monotonic Functions" (in French), Zap Fiz-Mat Viddilu, VUAN, Kiev, Vol 3, Issue 2, pp 40-47.
127. "Some Asymptotic Properties of the Best Approximation" (in French), Comptes Rendus, Vol 186, pp 840-842, Paris.
128. "Jacobi's Polynomials" (in French), Comptes Rendus, Vol 186, pp 1090-1093; 1456 Paris.
129. "Regularly Monotonic Functions" (in French), Comptes Rendus, Vol 186, pp 1266-1269, Paris.
130. "Intersection of Polynomials" (in French), Comptes Rendus, Vol 187, pp 558-559, Paris.
131. "Absolutely Monotonic Functions" (in French), Acta Math, Vol 52, pp 1-66.
132. "Demonstration of Hilbert's Theorem on the Analytic Nature of Solutions of Elliptic-Type Equations without the Use of Normal Series" (in French), Math Zeitschrift, Vol 28, pp 330-348.
133. "Concept of Correlation between Statistical Values" (in Ukrainian). Vestnik Statistiki Ukraini, I, pp 111-113, Khar'kov.

1929

134. "Monotonic Functions" (in Ukrainian). Zap Kharkov Mat Tov, Series 4, Vol 3, pp 11-18.
135. "Minimum Variation of Monotonic Polynomials $P_n(x)$ in the Interval $(-1, 1)$ whose derivatives $P'_n(1) = a^2 = a$, $P''_n(1) = b$ are given" (in French; title repeated in Ukrainian). Zap Kharkov, Mat Tov, Series 4, Vol 3, pp 19-23.
(Co-authors: W. Brecka and V. Rymarenko.)

136. "Orthogonal Polynomials" (in French), Comptes Rendus, Vol 188, pp 361-364, Paris.
137. "Distribution of Zeros of Polynomials Tending toward a Positive Continuous Function on a Given Segment" (in French), Journ de Math Pures et Appl, Vol 8, pp 327-337.
138. "Supplement to the Previous Article of W. Breck and J. Geronimus on a Monotonic Polynomial of Minimum Deviation" (in German), Math Annalen, Vol 102, pp 517-519.
139. "Grigoriy Alekseyevich Gruzintsev (Obituary)" (in Ukrainian), Zap Kharkov Mat Tov, Series 4, Vol 3, pp 5-10.

1930

140. "A Class of Orthogonal Polynomials" (in French), Zap Kharkivs'kogo Mat Tov, Series 4, Vol 4, pp 79-93.
141. "Application of Graphostatics to the Solution of Systems of Linear Equations", Trudy Moskovsk Inst Inzhenerov Transporta, Vol 15, pp 9-14.
142. "A Few Remarks on Polynomials of Minimum Deviation with Integral Coefficients", Doklady Ak Nauk SSSR, A, pp 411-418.
143. "Application of Chebyshev's Method to a Class of Fejer's Problems" (in French), Izvestiya Ak Nauk SSSR, OFMN, No 5, pp 381-398.
144. "Regularly Monotonic Functions" (in French), Atti Congresso Inst Mat, Vol 2, pp 267-275, Bologna.
145. "Class of Polynomials of Minimum Deviation" (in French), Comptes Rendus, Vol 190, pp 237-240, Paris.
146. "Limitation of Derivatives of Polynomials" (in French), Comptes Rendus, Vol 190, pp 338-341, Paris.
147. "Formula for Interpolation" (in French), Comptes Rendus, Vol 191, pp 635-637, Paris.
148. "Method for the Summation of Trigonometric Series" (in French), Comptes Rendus, Vol 191, pp 976-979, Paris.

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149. "Orthogonal Polynomials Relative to a Finite Segment, I" (in French), Journ de Math Pures et Appl, Vol 9, pp 127-177.

1931

150. "Example of a Continuous Function for which Lagrange's Formula for Trigonometric Interpolation Diverges" (in French), Doklady Ak Nauk SSSR, A, pp 365-366.
151. "Limitation of the Values of a Polynomial $P_n(x)$ of n Degree over a Whole Segment by its Values in $(n+1)$ Points on the Segment" (in French), Izvestiya Ak Nauk SSSR, OMEN, No 8, pp 1025-1050.
152. "Class of Formulas for Interpolation" (in French), Izvestiya Ak Nauk SSSR, OMEN, No 9, pp 1151-1161.
153. "Absolute Maximum of a Trigonometric Series" (in French), Comptes Rendus, Vol 193, pp 433-436, Paris.
154. "Orthogonal Polynomials Relative to a Finite Segment, II" (in French), Journ de Math Pures et Appl, Vol 10, pp 219-286.

1932

155. "Relations Between Chance Quantities" (in French), Verhandlungen Math Kongr, Zurich, 1932, Vol I, pp 288-309. Also, in Russian, in the book: Present Status of the Theory of Probabilities, 1933, pp 5-20, Moscow-Leningrad.
156. "Supplement to E. Voronovskaya's Article, 'Determination of the Asymptotic Form of the Approximation of Functions by M. Bernstein's Polynomials'" (in French). Doklady Ak Nauk SSSR, A, No 4, pp 86-92.
157. "Chebyshev's Formula for Approximate Integration", Izvestiya Ak Nauk SSSR, OMEN, No 9, pp 1219-1227.
158. "Present Status of the Theory of Best Approximations by Polynomials of Functions of a Real Variable", (in Ukrainian). Zap Kharkivs'kogo Mat Tov, Vol 5, pp 21-35.

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159. "Modification of Lagrange's Formula for Interpolation" (in French), Zap Kharkivs'kogo Matem Tov, Vol 5, pp 49-57.
160. "Supplement to the Article: 'Class of Orthogonal Polynomials'" (in French), Zap Kharkivs'kogo Matem Tov, Vol 5, pp 59-60.
161. "Formula for Interpolation of Vallée Poussin" (in French), Zap Kharkivs'kogo Matem Tov, Vol 5, pp 61-64.
162. "An Elementary Property of the Coefficient of Correlation" (in French), Zap Kharkov Matem Tov, Vol 5, pp 65-66.

1933

163. "Focke-Planck Differential Equation" (in French), Comptes Rendus, Vol 196 pp 1062-1064, Paris.
164. "Remark in Connection with a Note from M.R. Salem" (in French), Comptes Rendus, Vol 197, pp 213-214, Paris.
165. "Relation Between Chance Quantities," Trudy Noyabr'sk Yubil Sessii Ak Nauk SSSR, 1932, pp 38-62, Leningrad.

1934

166. "Markov's Quasi-Continuous Linear Chains, I". Doklady Ak Nauk SSSR, Vol 1, pp 1-9. Also, II: the same, pp 361-365.
167. "Scattering with Absorption", doklady Ak Nauk SSSR, Vol 1, pp 230-234.
168. "Trigonometric Interpolation by Least Squares", Doklady Ak Nauk SSSR, Vol 4, pp 1-8.
169. "Principles of the Theory of Stochastic Differential Equations, Part I" (in French), Trudy Fiz-Mat Inst-Mat imeni Steklova, Otd Matem, Vol 5, pp 95-124.
170. "Absolute Convergence of Trigonometric Series" (in French), Comptes Rendus, Vol 199, pp 397-400, Paris.
171. Theory of Probabilities. 2nd and 3rd editions supplemented. GTTI, 412 pp, Moscow-Leningrad.

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1935

172. "Mathematical Works of P.L. Chebyshev (1821-1894)". Priroda, No 2, pp 1-6.
173. "Some Extreme Properties of Successive Integrals" (in French), Comptes Rendus, Vol 200, pp 1900-1902, Paris.
174. "Theorem of M. Szegő" (in French), Prace Mat-Fiz, Vol 44, pp 9-14.
175. "Mathematical Expectation of Idle Time of Work Units in Complicated Productive Process". Ugol', No 117, pp 109-111, Khar'kov.

1936

176. "Present Status and Problems of the Theory of the Approximation by means of Polynomials of Functions of a Real Variable", (title in French and Russian). Trudy I Vses S'yezda Matematikov v Khar'kove, 1930, pp 58-96, Moscow-Leningrad.
177. "Determination of an Interior Limit of Dispersion of Sums of Quantities Bound in a Singular Chain" (in French), Matem Sbornik, Vol I (43); 1, pp 29-37.
178. "Periodic Functions for which the Fourier Series Seems the Best Converging Series". Trudy Leningrad Industr Inst, No 10, Razd Fiz-Matem Nauk, Issue 3, pp 1-8.
179. "Area of Convergence of Bernshteyn Polynomials:

$$B_n f(x) = \sum_{m=0}^n f(m/n) C_n^m x^m (1-x)^{n-m}$$
 (in French), Comptes Rendus, Vol 202, pp 1356-1358, Paris.
180. "Some Extreme Properties of Successive Integrals (Correction)" (in French), Comptes Rendus, Vol 203, p 147, Paris.
181. "Chebyshev's Quadrature Formula" (in French), Comptes Rendus, Vol 203, pp 1305-1306, Paris.
182. "Convergence of Certain Sets of Polynomials" (in French), Journ de Math Pures et Appl, Vol 15, pp 345-358.

CONFIDENTIAL

1937

183. "Notes and Chebyshev's Quadrature Formulas", Doklady Ak Nauk SSSR, Vol 14, pp 323-327.
184. "Certain Modifications of Chebyshev's Inequality", Doklady Ak Nauk SSSR, Vol 17, pp 275-277.
185. "Quadrature Formulas with Positive Coefficients", Izvestiya Ak Nauk SSSR, Ser Mat, No 4, pp 479-503.
186. "Examples of Quadrature Formulas with Positive Coefficients and Rational Abscissas", Trudy Leningrad Industr Inst, No 4, Razd Fis-Matem Nauk, Issue 2, pp 19-21.
187. "Statement on the Teaching of Mathematics in Higher Technical Schools (Vtuzy)". Vysshaya Shkola, No 2, pp 69-73.
188. Extremal Properties of Polynomials and the Best Approximation of Continuous Functions of One Real Variable, Part I. 203 pp, Moscow-Leningrad.
189. Orthogonal Polynomials in a Finite Interval. 128 pp Khar'kov Matem Biblioteka, Book 2, Khar'kov.
190. "Quadrature Formulas with Coefficients not Negative and Equidistant Abscissas" (in French), Comptes Rendus, Vol 204, pp 1294-1296, Paris.
191. "Modifications of Chebyshev's Quadrature Formula" (in French), Comptes Rendus, Vol 204, pp 1526-1529, Paris.
192. "Best Approximation of non-Regular Functions" (in French), Comptes Rendus, Vol 205, pp 825-827, Paris.

1938

193. "Best Approximation of $(x-c)^p$ ", Doklady Ak Nauk SSSR, Vol 18, pp 379-384.
194. "Limitation of Coefficients of Successive Derivative Solutions of Parabolic-Type Equations", Doklady Ak Nauk SSSR, Vol 18, pp 385-388.
195. "Best Approximation of $/x^p$ with the Help of Extremely High-Degree Polynomials", Izvestiya Ak Nauk SSSR, Ser Matem, No 2, pp 169-190.
196. "Basis for Chebyshev's System". Izvestiya Ak Nauk SSSR, Ser Matem, No 5-6, pp 499-504.

CONFIDENTIAL

197. "Some Applications of the Parametric Method to the Study of Quadrature Formulas" (title in Ukrainian and French), Zap N-D Inst Matem i Mekh, Series 4, Vol 15, Issue 1, pp 1-21, Khar'kov.
198. "Examples of Quadrature Formulas Analogous to Chebyshev's Formula", Trudy Leningrad Industr Inst, No 5, Razdel Fiz-Matem Nauk, Issue 1, pp 3-7.
199. "V.A. Markov's Theorem", Trudy Leningrad Industr Inst, No 5, Razdel Fiz-Matem Nauk, Issue 1, pp 8-13.
200. "Constructive Theory of the Functions of a Real Variable". Matematika i Estestvosnaniye v SSSR, Izd Ak Nauk SSSR, pp 36-41, Moscow-Leningrad.
201. "Inverse Problem of the Theory of the Best Approximation of Continuous Functions" (in French), Comptes Rendus, Vol 206, pp 1520-1523, Paris.
202. "System of Interminate Equations" (in French), Journ de Math Pures et Appl, Vol 17, pp 179-186.
203. Stochastic Differential Equations. Hermann, 31 pp, Paris. Act Sci Ind, 738, Confer Internat Sci Math Univ Geneve. Theory of Probabilities, V. The Aleatory (chance) Functions. (in French).

1939

204. "Definition of a Series of Functions through the Extremum of its Successive Remainders", Doklady Ak Nauk SSSR, Vol 22, pp 3-6.
205. "Some Remarks in Connection with Lyapunov's Limit Theorem", Doklady Ak Nauk SSSR, Vol 24, pp 3-7.
206. "Correction of a Proof", Doklady Ak Nauk SSSR, Vol 25, pp 705-707.
207. "The Petersburg School of the Theory of Probabilities". Priroda, No 8, pp 17-22.

1940

208. "The Problem of the Local Optimum Approximation of Functions". Dok Ak Nauk SSSR, Vol 26, pp 839-842.
209. "First Note on Linear Differential Operators".

CONFIDENTIAL

197. "Some Applications of the Parametric Method to the Study of Quadrature Formulas" (title in Ukrainian and French), Zap N-D Inst Matem i Mekh, Series 4, Vol 15, Issue 1, pp 1-21, Khar'kov.
198. "Examples of Quadrature Formulas Analogous to Chebyshev's Formula", Trudy Leningrad Industr Inst, No 5, Razdel Fis-Matem Nauk, Issue 1, pp 3-7.
199. "V.A. Markov's Theorem", Trudy Leningrad Industr Inst, No 5, Razdel Fis-Matem Nauk, Issue 1, pp 8-13.
200. "Constructive Theory of the Functions of a Real Variable". Matematika i Estestvosnaniye v SSSR, Izd Ak Nauk SSSR, pp 36-41, Moscow-Leningrad.
201. "Inverse Problem of the Theory of the Best Approximation of Continuous Functions" (in French), Comptes Rendus, Vol 206, pp 1520-1523, Paris.
202. "System of Intermittent Equations" (in French), Journ de Math Pures et Appl, Vol 17, pp 179-186.
203. Stochastic Differential Equations. Hermann, 31 pp, Paris. Act Sci Ind, 738, Confer Internat Sci Math Univ Geneve. Theory of Probabilities, V. The Aleatory (chance) Functions. (in French).

1939

204. "Definition of a Series of Functions through the Extremum of its Successive Remainders", Doklady Ak Nauk SSSR, vol 22, pp 3-6.
205. "Some Remarks in Connection with Lyapunov's Limit Theorem", Doklady Ak Nauk SSSR, Vol 24, pp 3-7.
206. "Correction of a Proof", Doklady Ak Nauk SSSR, Vol 25, pp 705-707.
207. "The Petersburg School of the Theory of Probabilities". Priroda, No 8, pp 17-22.

1940

208. "The Problem of the Local Optimum Approximation of Functions". Dok Ak Nauk SSSR, Vol 26, pp 839-842.
209. "First Note on Linear Differential Operators".

CONFIDENTIAL

210. "A Class of Fundamental Equations with Partial Derivatives". Izv Ak Nauk SSSR, Ser Matemat, Vol 4, pp 17-26.
211. "New Applications of the Theory of Almost-Independent Quantities". Izv Ak Nauk SSSR, Ser Matemat, Vol 4, pp 137-150.
212. "The Problem of the Urn with Additional Balls". Dok Ak Nauk SSSR, Vol 28, pp 5-7.

1941

213. "The Petersburg School of the Theory of Probability". Uch. Zapis Leningrad. Gos. Univ. No 55, pp 3-11.
214. "Approximating a Continuous Function by Means of a Linear Differential Operator of a Polynomial". Izv Ak Nauk SSSR, Ser Matem, Vol 5, pp 15-42.
215. "Sums of Dependent Quantities Possessing Mutually Almost-Null Regression". Dok Ak Nauk SSSR, Vol 32, pp 303-307.
216. "Fisher's 'Confidential' Probabilities". Iz Ak Nauk SSSR, Ser Matemat, Vol 5, pp 85-94.
217. "A Property Characterizing Gauss' Law". Trudy Leningrad. Politekh. Univer. No 3, pp 3-20.
218. "The First Boundary-Value Problem (Dirichlet's Problem) Elliptic-Type Equations, and the Properties of Functions that Satisfy these Equations". Uspekhi Matemat Nauk, Vol VIII, pp 8-26; collaborated with I.G. Petrovskiy.
219. "Proof of Hilbert's Theorem on the Analytic Character of the Solutions of Elliptic Equations without the Employment of Normal Series". Uspekhi Matemat Nauk, Vol VIII, pp 82-99.
220. "A Geometric Theorem and its Applications to Elliptic-Type Equations with Partial Derivatives". Uspekhi Matemat Nauk, Vol VIII, pp 75-81.
221. "Equations of Variational Calculations". Uspekhi Matemat Nauk, Vol VIII, pp 32-74.

19
-21-

CONFIDENTIAL

CONFIDENTIAL

1942

222. "Strengthening the Theorem on Surfaces of Negative Curvature". Izv Ak Nauk SSSR, Ser Matemat, Vol 6, pp 285-290.

1943

223. "Return to the Problem of the Accuracy of Laplace's Limit Formula". Izv Ak Nauk SSSR, Ser Matemat. Vol 7, pp 3-16.
224. "The Convergence of the Polynomial in the Complex Region". Izv Ak Nauk SSSR, Ser Mat, Vol 7, pp 49-68.
225. "A Supplement to My Article #222". Iz Ak Nauk, Ser Mat, Vol 7, pp 297-298.

1944

226. "New Generalizations of the Liouville Theorem and its Extension to Equations of the Parabolic Type". Dok Ak Nauk SSSR, Vol 42, pp 101-112.
227. "Extension of the Limit Theorems of the Theory of Probability to Sums of Dependent Quantities". Uspekhi Matemat Nauk, Vol X, pp 65-114.

1945

228. "The Constructive Theory of Functions as a Development of Chebyshev's Ideas". Izv Ak Nauk SSSR, Ser Matemat, Vol 9, pp 145-158.
229. "Academician P.L. Chebyshev". Priroda, No 2, pp 78-86.
230. "The Works of P.L. Chebyshev on the Theory of Probability". Nauchnoye Naslediye P.L. Chebyshev. Izv Ak Nauk SSSR, pp 43-67.

1946

231. "The Optimum Approximation of the Functions $\int_0^\infty |y|^s d\psi(s)$ on the interval $(-1,1)$ ". Izv Ak Nauk SSSR, Ser Matemat, Vol 10, pp 185-196.
232. "The Optimum Approximation of Continuous Functions on the Entire Real Axis with the Aid of ~~Entire~~ Integral Functions of Given Degree I". Dok Ak Nauk SSSR, Vol 51, pp 327-330.
233. "The Optimum Approximation of Continuous Functions on the Entire Real Axis with the Aid of ~~Entire~~ Integral Functions of Given Degree". II. Dok Ak Nauk SSSR, Vol 51, pp 485-488.

CONFIDENTIAL

CONFIDENTIAL

234. "The Optimum etc". III. Dok Ak Nauk, Vol 52, pp 565-568.
235. "The Upper Bound of the Maximum Modulus of the Derivative of a Monotonic Function of Finite Degree". Dok Ak Nauk SSSR, Vol 51, pp 567-568.
236. "Generalization of One Result of S.M. Nikol'skiy". Dok Ak Nauk SSSR, Vol 53, pp 587-590.
237. "The Optimum etc. (same as #232, 233, 234)". IV. Dok Ak Nauk SSSR, Vol 54, pp 103-108.
238. "A Supplement to I.I. Ibragimov's Work 'The Asymptotic Value of the Optimum Approximation of a Function that Possesses Real Essential Points'". Izv Ak Nauk SSSR, Ser Matemat, Vol 10, pp 461-462.
239. "Approximating a Function on the Entire Real Axis with the Aid of 'Entire' (Integral) Functions of Assigned Degree". V. Dok Ak Nauk SSSR, Vol 54, pp 479-482.
240. "A New Conclusion and Generalization of the Formulas of Optimum Approximation". Dok Ak Nauk SSSR, Vol 54, pp 667-668.
241. "The Limit Theorem of the Theory of Probability". Izvestiya Nauchno-issledov. Instituta Matemat i Mekhan pri Tomsk Gos Univ. pp 174-189.
242. Theory of Probability (Teoriya Veroyatnostey) Moscow-Leningrad, 556 pages; 4th edition.

1947

243. "The Optimum Approximation of Analytic Functions with the Aid of 'Entire' (Integral) Functions of Finite Degree". Dok Ak Nauk SSSR, Vol 56, pp 891-894.
244. "The Limit Dependencies Between the Constants of the Theory of Optimum Approximation". Dok Ak Nauk SSSR, Vol 57, pp 3-5.
245. "The Properties of Homogeneous Functional Classes". Dok Ak Nauk SSSR, Vol 57, pp 111-114.
246. "The Role of Inequalities and Extremum Problems in Mathematical Analysis". Yubil. Sbornik, dedicated to the 30th Year of the Great October Socialist Revolution, pp 114-133.

CONFIDENTIAL

CONFIDENTIAL

247. "Limits Laws in the Theory of Optimum Approximations". Dok Ak Nauk SSSR, Vol 58, pp 525-528.
248. "Chebyshev, His Influence on the Development of Mathematics". Uchen. Zapis. Moskov. Gos. Univ. 91, pp 35-45.
- 1948
249. "Certain Elementary Extremum Properties of Polynomials in Several Variables". Dok Ak Nauk SSSR, Vol 59, pp 833-836.
250. "A Second Note on Homogeneous Functional Classes". Dok Ak Nauk SSSR, Vol 59, pp 1379-1384.
251. "Entire (Integral) Functions of Finite Degree, in Many Real Variables". Dok Ak Nauk, Vol 60, pp 949-952.
252. "Extension of S.B. Stechkin's Inequalities to Entire (Integral) Functions of Finite Degree". Dok Ak Nauk SSSR, Vol 60, pp 1487-1490.
253. "Transfer of the Properties of Trigonometric Polynomials to 'Entire' (Integral) Functions of Finite Degree". Izv Ak Nauk SSSR, Ser Matemat, Vol 12, pp 421-444.
- 1949
254. "The 'Majorants' of Finite or Quasi-finite Increase". Dok Ak Nauk SSSR, Vol 65, pp 117-120.
255. "Additive Majorants of Finite Growth". Dok Ak Nauk SSSR, Vol 66, pp 545-548.
256. "Functions of Finite Degree and Functions of Finite Semi-Degree". Izv Ak Nauk SSSR. Ser Matemat. Vol 13, pp 111-124.

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